

# United States Patent [19]

Gosselink

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[54] ANIONIC END-CAPPED OLIGOMERIC ESTERS AS SOIL RELEASE AGENTS IN DETERGENT COMPOSITIONS

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[58] Field of Search ..... 560/87; 528/293, 295; 427/242, 393.4; 8/115.6; 252/8.7, 8.75, 90, 92, 153, 173, 174, 538, 539, 547, 548, 558, 559, DIG. 2, DIG. 14

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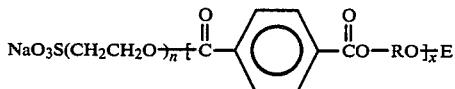
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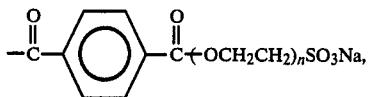
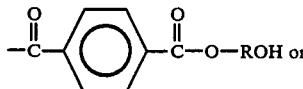
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## [57] ABSTRACT

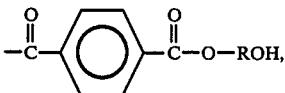
Oligomeric esters and mixtures thereof useful as soil release agents in consumer laundering and fabric care compositions are disclosed. Preferred oligomers have the formulae



wherein E is



wherein the R substituents may be the same or different and are members selected from the group consisting of —CH<sub>2</sub>CH(CH<sub>3</sub>)—, —CH(CH<sub>3</sub>)CH<sub>2</sub>—and —CH<sub>2</sub>C-H<sub>2</sub>—, n is an integer from 1 to 30 and x is an integer from 0 to about 20 provided that when E is



x is at least 1. Mixtures of the oligomers having one and two NaO<sub>3</sub>S(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>—substituents are particularly effective and formulable soil release agents in detergent compositions.

18 Claims, No Drawings